

### Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	DE-OE0000099	809855091	2010 / 1	No

### Award Recipient Information

<b>Recipient DUNS Number</b>	809855091	<b>Recipient Address 1</b>	89 KINGS HWY
<b>Recipient Account Number</b>	S9071703	<b>Recipient Address 2</b>	
<b>Recipient Congressional District</b>	00	<b>Recipient City</b>	DOVER
<b>Parent DUNS Number</b>	042258020	<b>Recipient State</b>	DE
<b>Recipient Type</b>	2F.77.V2	<b>Recipient ZIP Code + 4</b>	199017305
<b>Recipient Legal Name</b>	NATURAL RESOURCES AND ENVIRONMENTAL CONTROL, DELAWARE DEPARTMENT OF	<b>Recipient Country</b>	USA
<b>Recipient DBA Name</b>			

### Project / Award Information

<b>Funding Agency Code</b>	8900	<b>Total Number of Sub Awards less than \$25,000/award</b>	0
<b>Awarding Agency Code</b>	8900	<b>Total Amount Sub Awards less than \$25,000/award</b>	0.00
<b>Program Source (TAS) Code</b>	89-0328	<b>Total Number of Sub Awards to Individuals</b>	0
<b>Sub Account Number for Program Source</b>	331	<b>Total Amount of Sub Awards to Individuals</b>	0.00
<b>CFDA Number</b>	81.122	<b>Total Number of Payments to Vendors less than \$25,000/award</b>	0
<b>Amount of Award</b>	280109.00	<b>Total Amount of Payments to Vendors less than \$25,000/award</b>	0.00
<b>Award Date</b>	08/12/2009		
<b>Award Description</b>	Enhancing State Government Energy Assurance Capabilities and Planning for Smart Grid Resiliency Grant Amount = \$280,109 Delaware's Department of Natural Resources and Environmental Control Energy Office intends to use the Stimulus Funding, in collaboration with the Delaware Emergency Management Agency (DEMA) and the Public Service Commission (PSC) to improve emergency planning and to conduct necessary training. In the event of an energy emergency the State of Delaware needs to have a uniform plan to implement emergency procedures. The DEO working in concert with DEMA and the PSC will establish its policies, procedures and practices in the format of the National Incident		

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Management Systems (NIMS) as recommended by DEMA. According to the NIMS and the Incident Command System (ICS) Position Paper "NIMS provides a consistent, flexible and adjustable national framework within which government and private entities at all levels can work together to manage domestic incidents, regardless of their cause, size, location or complexity." The establishment of a uniform plan will also enable Delaware SEERP to be consistent with other state and regional action plans. The DEO in cooperation with DEMA and the PSC will train staff to be prepared for emergency responses under this system. In January 2008, the Delaware Energy Office (DEO) adopted a revised State of Delaware Energy Emergency Response Plan (SEERP) as its operations manual for energy emergencies. The SEERP states that responsibilities for energy emergencies are delegated to the DEMA in the Department of Safety and Homeland Security (DSHS) and the Delaware Energy Office (DEO) in the Department of Natural Resources and Environmental Control (DNREC). DEMA has recognized the SEERP as the official energy response plan for the state. The DEO in coordination with DEMA will direct the energy emergency contingency operations at the direct order of the Governor. DEO intends to add the Delaware Public Service Commission (PSC) as a partner in this plan due to its extensive contacts and knowledge of energy infrastructure in the state. The assembly of the DEO, DEMA and the PSC as the responding

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agencies to energy emergency contingency plans and information dissemination operations is essential. The DEO working in concert with DEMA and the PSC will establish its policies, procedures and practices in the format of the National Incident Management System (NIMS) as recommended by DEMA. According to the NIMS and the Incident Command System (ICS) Position Paper "NIMS provides a consistent, flexible and adjustable national framework within which government and private entities at all levels can work together to manage domestic incidents, regardless of their cause, size, location or complexity." The establishment of a uniform plan will also enable Delaware SEERP to be consistent with other state and regional action plans. The DEO in cooperation with DEMA and the PSC will train staff to be prepared for emergency responses under this system. Through this grant opportunity the DEO will incorporate better information gathering tools such as Smart Grid Technologies and renewable energy options into the SEERP. The new plan will also address how to manage events when traditional energy and fuels are limited or otherwise unavailable. Smart Grid Technology enables utilities to communicate with customer meters to determine energy usage and find service interruptions. The emergency support capacity of renewable energy in the form of photovoltaic, solar water heating, wind turbine technologies along with alternative fuels and vehicles will also be determined. The DEO in cooperation with the PSC will work with local

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electric, natural gas, and liquid fuels suppliers to understand Smart Grid applications and the current vulnerabilities of distribution systems. In so doing the DEO will better understand how to incorporate renewable and alternative energy sources in emergency operations.

### Project Information

Project Name or Project/ Program Title	Energy Assurance Planning	Activity Codes (NAICS or NTEE-NPC) (up to 10)
Quarterly Activities/ Project Description	<p>The DNREC Delaware Energy Office has selected AMEC/Energy Planning Consultants as contractor to assist DEO with the development of a new Delaware Energy Assurance Plan and all other associated requirements related to this grant. During the last reporting period, DEO representatives met with the contractor in person on November 16 and December 14, 2009 to review project priorities. Contractor and DEO met with the Delaware Emergency Management officials on December 15 to coordinate activities and contractor met with the Public Service Commission on December 16 to prioritize activities. During this reporting period, the contractor gathered data on energy emergency activities with fuel distribution terminals, retail marketers, fuel distributors, DEMA, Public Service Commission, USDOE, and Delaware State Agencies. The Contractor is focusing on</p>	<p>Activity Code 1 C05.02 Activity Code 2 Activity Code 3 Activity Code 4 Activity Code 5 Activity Code 6 Activity Code 7 Activity Code 8 Activity Code 9 Activity Code 10</p>

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Smart Grid applications and vulnerabilities, critical infrastructure interdependencies, cyber security, energy supply systems, energy data analysis and communications in their web-enabled application. Contractor focused on planning for Motor Fuel Shortage Response, Coal Shortage Response, and Propane Shortage Response. Contractor is surveying Delaware motor fueling stations to determine options for emergency powering fuel tanks at various locations if necessary during an emergency situation. Contractor has also developed the following software: "Delaware Fuel Management Software Program and the "Driver Hour Waiver Program". Contractor is also working to develop Intra and Inter-State Exercises to exercise the Delaware Energy Assurance Plan, simulating through table-top exercises, energy emergency/disruptions on a multi-state or regional scale. Contractor actively worked on the new Energy Assurance Plan during this reporting period.

**Project Status** Less than 50% completed

**Total Federal Amount ARRA Funds Received/ Invoiced** 21136.59

**Number of Jobs** 0.62

**Description of Jobs Created** Consulting services provided by 3 employees during this quarter. Two employees worked 160 hours each and one employee worked 5 hours = total of 325 hours worked during quarter and retained .63 jobs.

**Total Federal Amount of ARRA Expenditure** 29636.59

**Total Federal ARRA Infrastructure Expenditure** 0.00

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Infrastructure Purpose and Rationale

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### Infrastructure Contact

Name 0	Street Address 1
Email	Street Address 2
Phone	Street Address 3
Ext	City
	State
	ZIP Code + 4

### Primary Place of Performance

Address 1	DNREC Delaware Energy Office
Address 2	1203 College Park Drive
City	Dover
Country Code	US
State	DE
ZIP Code + 4	19904 - 8703
Congressional District	00

### Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name
Officer 1 Name		Officer 3 Compensation
Officer 1 Compensation		Officer 4 Name
Officer 2 Name		Officer 4 Compensation
Officer 2 Compensation		Officer 5 Name
		Officer 5 Compensation

### Report Audit Trail

Created By	CHARLIE T. SMISSON, JR. POC
Date Created	04/09/2010 01:17 PM
Last Updated By	CHARLIE T. SMISSON, JR. POC
Last Updated On	04/09/2010 01:17 PM

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### Vendor Information

<b>Sub Award Number</b>	<b>Payment Amount</b>	29636.59
<b>Vendor DUNS Number</b>	<b>Product and Service</b>	Energy Planning Consulting
<b>Vendor Name</b>	<b>Description</b>	Services
Energy Planning Consultants, Inc.		
<b>Vendor HQ ZIP Code + 4</b>	80104 - 5684	

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